



# WIND POWER INVERTERS





## Technical Data

	Windy Boy 700U (75 V to 150 V)	Windy Boy 700U (100 V to 200 V)	Windy Boy 700U (125 V to 250 V)	Windy Boy 3000US
<b>Input Data (DC)</b>				
Max. Recommended DC Input Power	510 W	670 W	780 W	3200 W
Max. DC Voltage	150 V	200 V	250 V	500 V
Peak Power Tracking Voltage	75 V - 150 V	100 V - 200 V	125 V - 250 V	180 - 500 V @ 208 V 200 - 500 V @ 240 V
DC Max. Input Current	7 A	7 A	7 A	17 A
DC Voltage Ripple	< 10 %	< 10 %	< 10 %	< 10 %
Number of Fused String Inputs	2	2	2	4
DC Start Voltage (adjustable)	95 V	125 V	150 V	228 V
<b>Output Data (AC)</b>				
AC Nominal Power	460 W	600 W	700 W	3000 W
AC Maximum Output Power	460 W	600 W	700 W	3050 W
AC Maximum Output Current	4.4 A	5.7 A	6.6 A	15 A
AC Nominal Voltage / Range	106 V - 132 V	106 V - 132 V	106 V - 132 V	183 - 229 V @ 208 V 211 - 264 V @ 240 V
AC Frequency / Range	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz
Power Factor	1	1	1	1
<b>Efficiency</b>				
Peak Inverter Efficiency	93.6 %	93.6 %	93.6 %	96.6 %
CEC Weighted Efficiency	91.5 %	91.5 %	91.5 %	95.0/95.5% (208/240 V)
<b>Mechanical Data</b>				
Dimensions W x H x D in inches	12.6 / 12.7 / 7.1	12.6 / 12.7 / 7.1	12.6 / 12.7 / 7.1	17.8 x 13.8 x 9.3
Weight / Shipping Weight	51 lbs / 57 lbs	51 lbs / 57 lbs	51 lbs / 57 lbs	84 lbs / 97 lbs
Ambient Temperature Range	-13 to +113 °F	-13 to +113 °F	-13 to +113 °F	-13 to +113 °F
Power Consumption (standby)	< 4 W (0.1 W)	< 4 W (0.1 W)	< 4 W (0.1 W)	< 7 W (0.1 W)
Topology	PWM, true sine wave, current source Convection	PWM, true sine wave, current source Convection	PWM, true sine wave, current source Convection	PWM, true sine wave, current source Convection, regulated fan cooling
Cooling Concept				
Mounting Location In-/Outdoor (NEMA 3R)	●/●	●/●	●/●	●/●
<b>Features</b>				
LCD Display	●	●	●	●
Lid Color: red / aluminum	●/○	●/○	●/○	●/○
Communication: RS485 / Wireless	○/○	○/○	○/○	○/○
Warranty: 5-year / 10-year	●/○	●/○	●/○	●/○
Compliance: IEEE-929, IEEE-1547, UL 1741, UL 1998, FCC Part 15 A & B	●	●	●	●

Specifications for nominal conditions:

● Included

○ Optional

# WINDY BOY 700U / 3000US

- Certified to the new UL 1741/ IEEE 1547
- 5-year limited warranty standard
- Comprehensive SMA communications and data collection options
- Rugged stainless steel enclosure
- Exceptional reliability and energy capture ratio
- Easy to install three-point mounting system
- Modular design is easily expandable

SMA's Windy Boy inverters combine the same proven technology present in all Sunny Boy inverters with special firmware that permits direct grid-tied operation with a broad range of wind turbines – without batteries. This greatly reduces the overall system cost because components such as the charge controller, batteries and associated switch gear can be eliminated. Increased total energy capture combined with a reduction of balance of system components greatly reduces the installation and operating costs of a grid-tied wind system. We recommend contacting your local wind

turbine supplier for information on compatible wind turbine models and system design considerations.

